

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/397,342

1644

Tung M.

DATE: 04/06/2000  
TIME: 10:31:36

Input Set: I397342.RAW

This Raw Listing contains the General Information  
Section and up to first 5 pages.

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1 <110> APPLICANT: Adams, Sean  
2 Pan, James  
3 Zhong, Alan  
4 <120> TITLE OF INVENTION: UCP4  
5 <130> FILE REFERENCE: P1626R1  
6 <140> CURRENT APPLICATION NUMBER: US/09/397,342  
7 <141> CURRENT FILING DATE: 1999-09-14  
8 <150> EARLIER APPLICATION NUMBER: US 60/101,279  
9 <151> EARLIER FILING DATE: 1998-09-22  
10 <150> EARLIER APPLICATION NUMBER: US 60/114,223  
11 <151> EARLIER FILING DATE: 1998-12-30  
12 <150> EARLIER APPLICATION NUMBER: US 60/129,674  
13 <151> EARLIER FILING DATE: 1999-04-16  
14 <160> NUMBER OF SEQ ID NOS: 18  
15 <210> SEQ ID NO 1  
16 <211> LENGTH: 323  
17 <212> TYPE: PRT  
18 <213> ORGANISM: Homo sapiens  
19 <400> SEQUENCE: 1  
20 Met Ser Val Pro Glu Glu Glu Glu Arg Leu Leu Pro Leu Thr Gln  
21 1 5 10 15  
22 Arg Trp Pro Arg Ala Ser Lys Phe Leu Leu Ser Gly Cys Ala Ala  
23 20 25 30  
24 Thr Val Ala Glu Leu Ala Thr Phe Pro Leu Asp Leu Thr Lys Thr  
25 35 40 45  
26 Arg Leu Gln Met Gln Gly Glu Ala Ala Leu Ala Arg Leu Gly Asp  
27 50 55 60  
28 Gly Ala Arg Glu Ser Ala Pro Tyr Arg Gly Met Val Arg Thr Ala  
29 65 70 75  
30 Leu Gly Ile Ile Glu Glu Glu Gly Phe Leu Lys Leu Trp Gln Gly  
31 80 85 90  
32 Val Thr Pro Ala Ile Tyr Arg His Val Val Tyr Ser Gly Gly Arg  
33 95 100 105  
34 Met Val Thr Tyr Glu His Leu Arg Glu Val Val Phe Gly Lys Ser  
35 110 115 120  
36 Glu Asp Glu His Tyr Pro Leu Trp Lys Ser Val Ile Gly Gly Met  
37 125 130 135  
38 Met Ala Gly Val Ile Gly Gln Phe Leu Ala Asn Pro Thr Asp Leu  
39 140 145 150  
40 Val Lys Val Gln Met Gln Met Glu Gly Lys Arg Lys Leu Glu Gly  
41 155 160 165  
42 Lys Pro Leu Arg Phe Arg Gly Val His His Ala Phe Ala Lys Ile  
43 170 175 180  
44 Leu Ala Glu Gly Gly Ile Arg Gly Leu Trp Ala Gly Trp Val Pro

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45		185	190	195
46	Asn Ile Gln Arg	Ala Ala Leu Val	Asn Met Gly Asp	Leu Thr Thr
47		200	205	210
48	Tyr Asp Thr Val	Lys His Tyr Leu Val	Leu Asn Thr Pro	Leu Glu
49		215	220	225
50	Asp Asn Ile Met	Thr His Gly Leu Ser	Ser Leu Cys Ser	Gly Leu
51		230	235	240
52	Val Ala Ser Ile	Leu Gly Thr Pro Ala	Asp Val Ile Lys	Ser Arg
53		245	250	255
54	Ile Met Asn Gln	Pro Arg Asp Lys Gln	Gly Arg Gly Leu	Leu Tyr
55		260	265	270
56	Lys Ser Ser Thr	Asp Cys Leu Ile Gln	Ala Val Gln Gly	Glu Gly
57		275	280	285
58	Phe Met Ser Leu	Tyr Lys Gly Phe Leu	Pro Ser Trp Leu	Arg Met
59		290	295	300
60	Thr Pro Trp Ser	Met Val Phe Trp Leu	Thr Tyr Glu Lys	Ile Arg
61		305	310	315
62	Glu Met Ser Gly	Val Ser Pro Phe		
63		320	323	

64 &lt;210&gt; SEQ ID NO 2

65 &lt;211&gt; LENGTH: 1039

66 &lt;212&gt; TYPE: DNA

67 &lt;213&gt; ORGANISM: Homo sapiens

68 &lt;400&gt; SEQUENCE: 2

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69 ccgagctcgg atcccgttat cgtcttgccg tactgctgaa tgtccgtccc 50
70 ggaggaggag gagaggcttt tgccgctgac ccagagatgg ccccgagcga 100
71 gcaaattcct actgtccggc tgccgcgcta ccgtggccga gctagcaacc 150
72 tttcccctgg atctcacaaa aactcgactc caaatgcaag gagaagcagc 200
73 tcttgctcgg ttgggagacg gtgcaagaga atctgcccc tataggggaa 250
74 tgggtgcgcac agccctaggg atcattgaag aggaaggctt tctaaagctt 300
75 tggcaaggag tgacacccgc catttacaga cacgtagtgt attctggagg 350
76 tcgaatggtc acatatgaac atctccgaga ggttggtgtt ggcaaaagt 400
77 aagatgagca ttatcccctt tggaaatcag tcattggagg gatgatggct 450
78 ggtgttattg gccagttttt agccaatcca actgacctag tgaaggttca 500
79 gatgcaaatg gaaggaaaaa ggaaactgga aggaaaacca ttgcgatttc 550
80 gtggtgtaca tcatgcattt gcaaaaatct tagctgaagg aggaatacga 600
81 gggctttggg caggctgggt acccaatata caaagagcag cactggtgaa 650
82 tatgggagat ttaaccactt atgatacagt gaaacactac ttggtattga 700
83 atacaccact tgaggacaat atcatgactc acggtttatc aagtttatgt 750
84 tctggactgg tagcttctat tctgggaaca ccagccgatg tcatcaaaag 800
85 cagaataatg aatcaaccac gagataaaca aggaagggga cttttgtata 850
86 aatcatcgac tgactgcttg attcaggctg ttcaagggtg aggattcatg 900
87 agtctatata aaggcttttt accatcttgg ctgagaatga ccccttggtc 950
88 aatggtgttc tggcttactt atgaaaaaat cagagagatg agtggagtca 1000
89 gtccatttta agaattctgc agatatccat cacactggc 1039

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90 &lt;210&gt; SEQ ID NO 3

91 &lt;211&gt; LENGTH: 31

92 &lt;212&gt; TYPE: DNA

93 &lt;213&gt; ORGANISM: Artificial

94 &lt;220&gt; FEATURE:

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# RAW SEQUENCE LISTING PATENT APPLICATION US/09/397,342

DATE: 04/06/2000  
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95 <221> NAME/KEY: Misc-feature
96 <222> LOCATION: 1-31
97 <223> OTHER INFORMATION: Sequence is synthesized
98 <400> SEQUENCE: 3
99   cgcggatccc gttatcgctt tgcgctactg c 31
100 <210> SEQ ID NO 4
101 <211> LENGTH: 34
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial
104 <220> FEATURE:
105 <221> NAME/KEY: Misc-feature
106 <222> LOCATION: 1-34
107 <223> OTHER INFORMATION: Sequence is synthesized
108 <400> SEQUENCE: 4
109   gcggaattct taaaatggac tgactccact catc 34
110 <210> SEQ ID NO 5
111 <211> LENGTH: 1248
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial
114 <220> FEATURE:
115 <221> NAME/KEY: Misc-feature
116 <222> LOCATION: 1-1248
117 <223> OTHER INFORMATION: Sequence is synthesized
118 <220> FEATURE:
119 <221> NAME/KEY: unknown
120 <222> LOCATION: 1231
121 <223> OTHER INFORMATION: unknown base
122 <400> SEQUENCE: 5
123   cgttatcgtc ttgcgctact gctgaatgtc cgtcccggag gaggaggaga 50
124   ggcttttgcc gctgaccag agatggcccc gagcgagcaa attcctactg 100
125   tccggctgcg cggtaccgt ggccgagcta gcaacctttc ccctggatct 150
126   cacaaaaact cgactccaaa tgcaaggaga agcagctctt gctcggttgg 200
127   gagacggtgc aagagaatct gccccctata ggggaatggt gcgcacagcc 250
128   ctagggatca ttgaagagga aggccttcta aagctttggc aaggagtgc 300
129   acccgccatt tacagacacg tagttatttc tggaggctga atggtcacat 350
130   atgaacatct ccgagagggt gtgtttggca aaagtgaaga tgagcattat 400
131   cccctttgga aatcagtcac tggagggatg atggctggtg ttattggcca 450
132   gtttttagcc aatccaactg acctagtga ggttcagatg caaatggaag 500
133   gaaaaaggaa actggaagga aaaccattgc gatttcgtgg tgtacatcat 550
134   gcatttgcaa aaatcttagc tgaaggagga atacgaaggc tttgggcagg 600
135   ctgggtaccc aatatacaaa gagcagcact ggtgaatatg ggagatttaa 650
136   ccacttatga tacagtgaac cactacttgg tattgaatac accacttgag 700
137   gacaatatca tgactcacgg tttatcaagt ttatgttctg gactggtagc 750
138   ttctattctg ggaacaccag ccgatgtcat caaaagcaga ataataatc 800
139   aaccacgaga taaacaagga aggggacttt tgtataaatc atcgactgac 850
140   tgcttgattc aggctgttca aggtgaagga ttcatgagtc tatataaagg 900
141   ctttttacca tcttggtgta gaatgacccc ttggtcaatg gtgttctggc 950
142   ttacttatga aaaaatcaga gagatgagtg gagtcagtc attttaaac 1000
143   cctaaagatg caacccttaa agatacagtg ttcagtatta ttgaaatatg 1050
144   ggcacatgca acacataccc cctattattt ctacctcttt aggaagacac 1100

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# RAW SEQUENCE LISTING PATENT APPLICATION US/09/397,342

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145 ctattccaca gagactgatt tatagggggc agcactttat ttttttctgg 1150  
 146 aaacccaagt tctctttgac tcctcttttt gtccaaaagt gatctggtcg 1200  
 W--> 147 gatctcacaa ggccatccaa tgagaccccg nacagcattt tctaaaga 1248  
 148 <210> SEQ ID NO 6  
 149 <211> LENGTH: 58  
 150 <212> TYPE: DNA  
 151 <213> ORGANISM: Artificial  
 152 <220> FEATURE:  
 153 <221> NAME/KEY: Misc-feature  
 154 <222> LOCATION: 1-58  
 155 <223> OTHER INFORMATION: Sequence is synthesized  
 156 <400> SEQUENCE: 6  
 157 cgcgatccg aaatggacta caaggacgac gatgacaagt ccgtcccgga 50  
 158 ggaggagg 58  
 159 <210> SEQ ID NO 7  
 160 <211> LENGTH: 35  
 161 <212> TYPE: DNA  
 162 <213> ORGANISM: Artificial  
 163 <220> FEATURE:  
 164 <221> NAME/KEY: Misc-feature  
 165 <222> LOCATION: 1-35  
 166 <223> OTHER INFORMATION: Sequence is synthesized  
 167 <400> SEQUENCE: 7  
 168 gcgaagcttg ccatggttgg actgaagcct tcaga 35  
 169 <210> SEQ ID NO 8  
 170 <211> LENGTH: 33  
 171 <212> TYPE: DNA  
 172 <213> ORGANISM: Artificial  
 173 <220> FEATURE:  
 174 <221> NAME/KEY: Misc-feature  
 175 <222> LOCATION: 1-33  
 176 <223> OTHER INFORMATION: Sequence is synthesized  
 177 <400> SEQUENCE: 8  
 178 cgcgattct caaaacggtg attcccgtaa cat 33  
 179 <210> SEQ ID NO 9  
 180 <211> LENGTH: 61  
 181 <212> TYPE: DNA  
 182 <213> ORGANISM: Artificial  
 183 <220> FEATURE:  
 184 <221> NAME/KEY: Misc-feature  
 185 <222> LOCATION: 1-61  
 186 <223> OTHER INFORMATION: Sequence is synthesized  
 187 <400> SEQUENCE: 9  
 188 gcgaagcttg ccatggacta caaggacgac gatgacaagg ttggactgaa 50  
 189 gccttcagac g 61  
 190 <210> SEQ ID NO 10  
 191 <211> LENGTH: 19  
 192 <212> TYPE: DNA  
 193 <213> ORGANISM: Artificial  
 194 <220> FEATURE:

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**RAW SEQUENCE LISTING**  
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195 <221> NAME/KEY: Misc-feature  
196 <222> LOCATION: 1-19  
197 <223> OTHER INFORMATION: Sequence is synthesized  
198 <400> SEQUENCE: 10  
199     aatgcctatc gccgaggag 19  
200 <210> SEQ ID NO 11  
201 <211> LENGTH: 20  
202 <212> TYPE: DNA  
203 <213> ORGANISM: Artificial  
204 <220> FEATURE:  
205 <221> NAME/KEY: Misc-feature  
206 <222> LOCATION: 1-20  
207 <223> OTHER INFORMATION: Sequence is synthesized  
208 <400> SEQUENCE: 11  
209     gtaggaactt gctcgtccgg 20  
210 <210> SEQ ID NO 12  
211 <211> LENGTH: 22  
212 <212> TYPE: DNA  
213 <213> ORGANISM: Artificial  
214 <220> FEATURE:  
215 <221> NAME/KEY: Misc-feature  
216 <222> LOCATION: 1-22  
217 <223> OTHER INFORMATION: Sequence is synthesized  
218 <400> SEQUENCE: 12  
219     tgctcgcgct cacgcagaga tg 22  
220 <210> SEQ ID NO 13  
221 <211> LENGTH: 24  
222 <212> TYPE: DNA  
223 <213> ORGANISM: Artificial  
224 <220> FEATURE:  
225 <221> NAME/KEY: Misc-feature  
226 <222> LOCATION: 1-24  
227 <223> OTHER INFORMATION: Sequence is synthesized  
228 <400> SEQUENCE: 13  
229     gaaatcgtgc gtgacatcaa agag 24  
230 <210> SEQ ID NO 14  
231 <211> LENGTH: 23  
232 <212> TYPE: DNA  
233 <213> ORGANISM: Artificial  
234 <220> FEATURE:  
235 <221> NAME/KEY: Misc-feature  
236 <222> LOCATION: 1-23  
237 <223> OTHER INFORMATION: Sequence is synthesized  
238 <400> SEQUENCE: 14  
239     ctccttctgc atcctgtcag caa 23  
240 <210> SEQ ID NO 15  
241 <211> LENGTH: 22  
242 <212> TYPE: DNA  
243 <213> ORGANISM: Artificial  
244 <220> FEATURE:

Input Set: I397342.RAW

Line	? Error/Warning	Original Text
147	W "N" or "Xaa" used: Feature required	gatctcaciaa ggccatccaa tgagaccccg nacagcat